

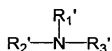
**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-7. (Canceled)

8. (Currently Amended) An ink jet ink composition comprising at least water, a colorant and a water-soluble organic solvent, wherein the ink jet ink composition comprises at least one amine compound represented by the following formula (2):

Formula (2)



wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $R_1'$ ,  $R_2'$  and  $R_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-CO_2M$  and  $-SO_3M$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to 13~~ 13 to 30 % by mass.

9. (Canceled)

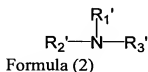
10. (Original) An ink jet ink composition according to claim 8, wherein the amine compound is selected from the group consisting of N,N-bis(hydroxyalkyl)glycine derivatives and N,N-bis(hydroxyalkyl)-2-aminoethanesulfonic acid derivatives.

11. (Original) An ink jet ink composition according to claim 8, wherein a melting point or decomposition point of the amine compound is 50°C or more.

12. (Original) An ink jet ink composition according to claim 8, wherein a surface tension of the ink composition is 40 mN/m or less.

13. (Canceled)

14. (Currently Amended) An ink jet recording method comprising forming an image by adhering an ink jet ink composition comprising at least water, a colorant and a water soluble organic solvent, to a recording medium, wherein the ink jet ink composition comprises at least one amine compound represented by the following formula (2):



wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $R_1'$ ,  $R_2'$  and  $R_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-CO_2M$  and  $-SO_3M$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to 13~~ 13 to 30 % by mass.

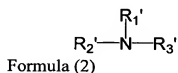
15-16. (Canceled)

17. (Currently Amended) An ink jet recording apparatus comprising at least a recording head including a liquid ejection surface having a nozzle for ejecting a liquid, and a recording medium transfer section for transferring a recording medium in one direction while the recording medium faces the liquid ejection surface and a shortest distance between the recording medium and the liquid ejection surface is constantly maintained, wherein:

during printing, an image is formed by ejecting the liquid onto a surface of the recording medium from the liquid ejection surface while moving the recording head in a direction substantially perpendicular to the transfer direction of the recording medium;

an ink jet ink composition comprising at least water, a colorant and a water soluble organic solvent is used as the liquid; and

the ink jet ink composition comprises at least one amine compound represented by the following formula (2),



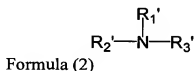
wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $R_1'$ ,  $R_2'$  and  $R_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-CO_2M$  and  $-SO_3M$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to~~ 13 to 30% by mass.

18. (Original) An ink jet recording apparatus according to claim 17, wherein the shortest distance between the liquid ejection surface and the recording medium is in a range of 1.0 mm to 2.0 mm, and a largest length of the liquid ejection surface in the recording medium transfer direction is 2.54 cm or more.

19. (Canceled)

20. (Currently Amended) An ink set comprising at least two inks which each comprise water, a colorant and a water soluble organic solvent, wherein at least one ink in the ink set comprises at least one amine compound represented by the following formula (2):

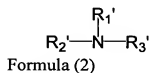


wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $R_1'$ ,  $R_2'$  and  $R_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-CO_2M$  and  $-SO_3M$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to~~ 13 to 30% by mass.

21. (Canceled)

22. (Currently Amended) An ink jet recording method comprising forming an image by using an ink set containing at least two inks comprising at least water, a colorant and a water soluble organic solvent, and by adhering an ink of the ink set to a recording medium, wherein at least one ink of the ink set comprises at least one amine compound represented by the following formula (2):



wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $\text{R}_1'$ ,  $\text{R}_2'$  and  $\text{R}_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-\text{CO}_2\text{M}$  and  $-\text{SO}_3\text{M}$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to~~ 13 to 30% by mass.

23. (Canceled)

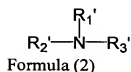
24. (Currently Amended) An ink jet recording apparatus comprising at least a recording head including a liquid ejection surface having at least two nozzles for independently ejecting at least two liquids, and a recording medium transfer section for transferring a recording medium in one direction while the recording medium faces the liquid

ejection surface and a shortest distance between the recording medium and the liquid ejection surface is constantly maintained, wherein:

during printing, an image is formed by ejecting the at least two liquids onto a surface of the recording medium from the liquid ejection surface while moving the recording head in a direction substantially perpendicular to the transfer direction of the recording medium;

an ink set comprising at least two inks comprising at least water, a colorant and a water soluble organic solvent is used as the at least two liquids; and

at least one ink in the ink set comprises at least one amine compound represented by the following formula (2):

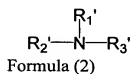


wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $R_1'$ ,  $R_2'$  and  $R_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-CO_2M$  and  $-SO_3M$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to~~ 13 to 30% by mass.

25. (Canceled)

26. (Currently Amended) A colorless ink jet treatment liquid which is used together with an ink jet ink composition comprising at least water, a colorant and a water soluble organic solvent, during printing, and comprises at least water and a water soluble organic solvent, wherein the ink jet treatment liquid comprises at least one amine compound represented by the following formula (2):



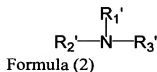
wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $\text{R}_1'$ ,  $\text{R}_2'$  and  $\text{R}_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-\text{CO}_2\text{M}$  and  $-\text{SO}_3\text{M}$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to~~ 13 to 30% by mass.

27. (Canceled)

28. (Currently Amended) An ink jet recording method comprising forming an image by adhering an ink jet ink composition comprising at least water, a colorant and a water soluble organic solvent, and a colorless ink jet treatment liquid comprising at least water and a water soluble organic solvent, to approximately the same region on a recording

medium, wherein the ink jet treatment liquid comprises at least one amine compound represented by the following formula (2):



wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $\text{R}_1'$ ,  $\text{R}_2'$  and  $\text{R}_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-\text{CO}_2\text{M}$  and  $-\text{SO}_3\text{M}$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to~~ 13 to 30% by mass.

29. (Canceled)

30. (Currently Amended) An ink jet recording apparatus comprising at least a recording head including a liquid ejection surface comprising at least two nozzles for independently ejecting at least two liquids, and a recording medium transfer section for transferring a recording medium in one direction while the recording medium faces the liquid ejection surface and a shortest distance between the recording medium and the liquid ejection surface is constantly maintained, wherein:

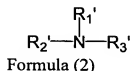
during printing, an image is formed by ejecting the at least two liquids onto a surface of the recording medium from the liquid ejection surface while moving the recording



head in a direction substantially perpendicular to the transfer direction of the recording medium;

an ink jet ink composition comprising at least water, a colorant and a water soluble organic solvent, and a colorless ink jet treatment liquid comprising at least water and a water soluble organic solvent are used as the at least two liquids; and,

the ink jet treatment liquid comprises at least one amine compound represented by the following formula (2),



wherein the amine compound represented by the formula (2) is any one of primary to tertiary amine compounds; at least one of three substituents represented by  $R_1'$ ,  $R_2'$  and  $R_3'$  in the formula (2) comprises a hydrocarbon group having a hydroxyl group; and at least one of the three substituents comprises a hydrocarbon group containing an alkyl group having at its terminal either one of  $-CO_2M$  and  $-SO_3M$  in which M represents an atom or an atomic group selected from hydrogen, an alkali metal, an alkaline earth metal, an ammonium group and an organic amine group, and

wherein a content of the amine compound is in a range of ~~10 to~~ 13 to 30% by mass.

31. (New) An ink jet ink composition according to claim 8, wherein a content of the amine compound is in a range of 15 to 30%.